

Appendix A: Tables I-III Detailing preferred materials for use in some preferred embodiments

Table I describes the component formulations.

COMPONENT	
A	paraffin wax, melting point 60°C
B	pure monomer hydrocarbon resin comprising a copolymer of $\alpha$ -methylstyrene, vinyl toluene; viscosity 1000 cps @130°C; softening point 78-95°C.
C	medium hard microcrystalline ester wax; viscosity 16 cps @ 100°C; melting point 78-86°C; penetration 1.7 mm @ 25°C
D	hard microcrystalline wax; viscosity 16 cps @ 100°C; melting point 93°C; penetration 0.55mm @ 25°C
E	soft microcrystalline wax; viscosity 13 cps @ 100°C; melting point 69°C; penetration 2.9mm @ 25°C
F	ethylene-vinyl acetate copolymer; viscosity 575 cps @ 140°C; melting point 92°C
G	tetrakis[methylene (3,5-di-tert-butyl-4-hydroxyhydrocinnamate)] methane, an antioxidant; melting point 110-125°C
H	dioctylphthalate (DOP), a plasticizer
I	dioctylterephthalate (DOTP), a plasticizer
J	2,6-di-tert-butyl-4-methylphenol, an antioxidant
K	diisononyl phthalate (DINP), a plasticizer
L	dye or coloring compound
M	methacrylate terminated polystyrene
N	free radical photoinitiator
O	polyethylene oxide, average molecular weight 2000
P	epoxy novolac oligomer
Q	cationic photoinitiator
R	multifunctional acrylate

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Table II-A and II-B present formulations of preferred materials for use in some preferred embodiments by component designation.

**TABLE II-A**

		----- Weight % -----					
<b>COMPONENT</b>		<b>Ex. 1</b>	<b>Ex. 2</b>	<b>Ex. 3</b>	<b>Ex. 4</b>	<b>Ex. 5</b>	<b>Ex. 6</b>
<b>A</b>		21	21	44	25	20	20
<b>B</b>		49	49	25	20	25	50
<b>C</b>		12	12	12	-	-	12
<b>D</b>		5	5	6	10	5	5
<b>E</b>		5	5	6	20	20	5
<b>F</b>		4	4	2.3	20	25	4
<b>G</b>		2	2	-	-	-	-
<b>H</b>		-	2	-	-	-	
<b>I</b>		-	-	2.3	2	2.5	2
<b>J</b>		-	-	2.3	3	2.5	2
<b>K</b>		2	-	-	-	-	-
<b>PROPERTIES</b>							
Viscosity @ 130 °C	cps / °C	22	22	7	20	28	24
Hardness	shore D				28	26	
Impact Energy	kJ/m <sup>2</sup>				1.4	2.2	

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TABLE II-B

<u>COMPONENT</u>	<u>Ex. 7</u>	<u>Ex. 8</u>	<u>Ex. 9</u>
<b>A</b>	21		
<b>M</b>	51		
<b>C</b>	12		
<b>D</b>	5		
<b>E</b>	5		
<b>F</b>	5		
<b>N</b>	1		1
<b>O</b>		77	77
<b>P</b>		22	
<b>Q</b>		1	
<b>R</b>			22

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**TABLE III**

<b>COMPONENT</b>	<b>NAME</b>	<b>SUPPLIER</b>
A	Paraffin	Allied Signal Inc., Morristown, NJ
B	"PICOTEX LC"	Hercules, Inc., Wilmington, DE
C	"X-22"	Hoechst Celanese Corp., Somerville, NJ
D	"C-700"	Petrolite Corp., Tulsa, OK
E	"ULTRAFLEX"	Petrolite Corp., Tulsa, OK
F	"AC-400"	Allied Signal Inc., Morristown, NJ
G	"IRGANOX 1010"	Ciba-Geigy Corp., Hawthorne, NY
H	DOTP	Aldrich Chemical Co., Inc., Milwaukee, WI
I	DOP	Aldrich Chemical Co., Inc., Milwaukee, WI
J	"BHT"	Aldrich Chemical Co., Inc., Milwaukee, WI
K	DINP	Aristech Chemical Corp., Cleveland, OH
M	"13K-RC"	Sartomer Co., West Chester, PA
N	"IRGACURE 184"	Ciba-Geigy Corp., Hawthorne, NY
O	Polyethelene Oxide	Dow Chemicals, Midland, MI
P	"DEN 438"	Dow Chemicals, Midland, MI
Q	"UVI 6974"	Union Carbide Chemicals, Danbury, CT
R	"SR 399"	Sartomer Co., West Chester, PA